AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A rear plate of a plasma display panel, the rear plate comprising:

a glass substrate;

electrodes formed in a shape of patterns on an upper surface of the glass substrate;

a dielectric layer formed on upper surfaces of the electrode-electrodes and the upper

surface of the glass substrate;

barrier ribs formed in a shape of a pattern through etching on an upper surface of the

dielectric layer; and

phosphorous layers formed on side surfaces and bottom surfaces of the barrier ribs and

including red, green, and blue phosphorous layers, which emit red, green, and blue light

according to an electric signal, respectively, wherein:

the electrodes are made from mixture of a conductive metal powder of 51 to 99.5 wt %

and a first glass powder of 0.5 to 49 wt %, the conductive metal powder being at least one kind

of metal powder selected from metal powder of An, Au, Ag, Pt, Pd, Ni, and Cu, the conductive

metal powder having an average particle diameter of 0.1 to 7µm, the first glass powder having an

average particle diameter of 0.5 to 10 µm and a specific resistance of 1.0 x 10-6 to 5.0 x 10-6

 Ω cm;

the dielectric layer is made from mixture of a first filler and at least one glass powder

selected from among a second glass powder and a third glass powder, the second glass powder

including PbO of 30 to 80 wt %, ZnO of 0 to 20 wt %, SiO2 of 0 to 20 wt %, B2O3 of 5 to 40 wt

%, Al₂O₃ of 0 to 12 wt %, Na₂ O+K₂O+Li₂O of 0 to 5 wt %, and BaO+CaO+MgO+SrO of 0 to

5 wt %, the third glass powder including Bi₂O₃ of 36 to 84 wt %, B₂O₃ of 5 to 28 wt %, PbO of

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0 to 46 wt %, ZnO of 0 to 30 wt %, Al₂O₃ of 0 to 13 wt %, SiO₂ of 0 to 10 wt %, Na ₂O+K₂O+Li₂O of 0 to 5 wt %, and BaO+CaO+MgO+SrO of 0 to 3 wt %, each of the second and third glass powders having an average particle diameter of 0.5 to 10μm, a softening temperature of 390 to 550°C, a thermal expansive coefficient of 63 x 10⁻⁷ to 83 x 10⁻⁷/°C, a dielectric constant of 11 to 26, and an etching rate of 0.1 to 1.0μm/min, the first filler having an average particle diameter of 0.5 to 10μm and including at least one oxide selected from the group consisting of TiO₂, ZrO₂, ZnO, Al₂O₃, BN, SiO₂, and MgO, which are white oxides, or including BN, a ratio of volume of the first filler with respect to volume of the glass powder in the dielectric layer being 0.05 to 0.30, thereby the dielectric layer having a dielectric constant of 11 to 26, a reflectance of 50 to 80%, an etching rate of 0.1 to 1.0 μm/min, and a porosity of 5, when the dielectric layer has been baked for 10 to 60 minutes at 450 to 600°C;

the barrier ribs are made from mixture which includes at least one glass powder selected from the group consisting of a fourth, fifth, and sixth glass powders and at least one filler selected from the group consisting of a second filler and a third filler, the fourth glass powder including ZnO of 0 to 48 wt %, SiO₂ of 0 to 21 wt %, B₂O₃ of 25 to 56 wt %, Al₂O₃ of 0 to 12 wt %, Na₂O+K₂O+Li₂O of 0 to 38 wt %, and BaO+CaO+MgO+SrO of 0 to 15 wt %, the fifth glass powder including PbO of 25 to 65 wt %, ZnO of 0 to 35 wt %, SiO₂ of 0 to 26 wt %, B₂O₃ of 5 to 30 wt %, Al₂O₃+SnO₂ of 0 to 13 wt %, Na₂O+K₂O+Li₂O of 0 to 19 wt %, BaO of 0 to 26 wt %, and CaO+MgO+SrO of 0 to 13 wt %, the sixth glass powder including PbO of 35 to 55 wt %, B₂O₃ of 18 to 25 wt %, ZnO of 0 to 35 wt %, BaO of 0 to 16 wt %, SiO₂+Al₂O₃+SnO₂ of 0 to 9 wt %, CoO+CuO+MnO₂+Fe₂O₃ of 0 to 15 wt %, Na₂O+K₂O+Li₂O of 0 to 19 wt %, and CaO+MgO+SrO of 0 to 13 wt %, each of the fourth, fifth, and sixth glass powders having

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an average particle diameter of 0.5 to 10 µm, a softening temperature of 390 to 630°C, a thermal

expansive coefficient of 63 x 10⁻⁷ to 83 x 10⁻⁷/°C, a dielectric constant of 5 to 20, and an

etching rate of 2.0 to 50.0 µm/min, the second filler including at least two oxides selected from

the group consisting of NiO, Fe₂O₃, CrO, MnO₂, CuO, Al₂O₃, and SiO₂, which have dark

colors, the third filler including at least one oxide selected from the group consisting of TiO₂,

ZrO₂, ZnO, Al₂O₃, BN, SiO₂, and MgO, which have white colors, or including BN, each of the

second and third fillers having an average particle diameter of 0.1 to 10 µm, a ratio of the

volume of the filler with respect to the volume of the glass powder for the barrier ribs being

0.05 to 0.67, thereby the barrier ribs having a dielectric constant of 5 to 16 and an etching rate

of 2 to 50 µm/min and enabling the glass substrate having the barrier ribs to have a bending of

at most 0.3 mm, when the barrier ribs have been baked for 10 to 60 minutes at 450 to 600°C, the

barrier ribs having a height difference of at most 1% when the barrier ribs has been baked at

510°C for one hour after being etched by acid-based etching solution, the barrier ribs having a

destruction ratio of 50% when an iron rod, which weighs 500 g and has an end portion shaped

like a sphere having a radius of 3 mm, is dropped one hundred times vertically onto uppermost

surfaces of the barrier ribs from 5 mm above the uppermost surfaces, each of the barrier ribs

having at least one layer; and

the red phosphorous layer includes at least two kinds of oxides selected from the group

consisting of oxides Y, Gd, B, and Eu of YOx, GdOx, Box, and EuOx, the green phosphorous layer

includes at least one kind of oxide selected from the group consisting of oxides Zn, Si, Mn, Y, B,

Tb, Ba, and Al, of ZnOx, SiOx, MnOx, YOx, BOx, TbOx, BaOx, and AlOx, and the blue

phosphorous layer comprises includes at least two kinds of oxides selected from the group

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consisting of oxides Ba, Mg, Al, Sr, Mn, and Eu of BaOx, MgOx, AlOx, SrOx, MnOx and EuOx

so that, in the phosphorous layers, color temperatures are maintained between 8,000 K and 13,000

K.

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